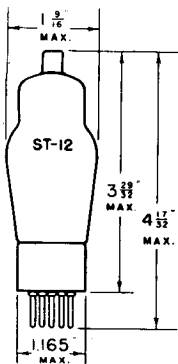


TUNG-SOL

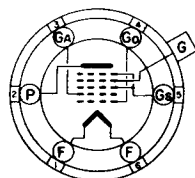


PENTAGRID CONVERTER

COATED FILAMENT
2.0 VOLTS 0.06 AMPERE
DC

GLASS BULB

SMALL 6 PIN BASE



6L

BOTTOM VIEW

THE TUNG-SOL 1A6 IS A COMBINED OSCILLATOR AND MIXER DESIGNED FOR SERVICE AS THE FIRST DETECTOR IN BATTERY OPERATED SUPERHETERODYNE RECEIVERS WHERE ECONOMY IN FILAMENT CURRENT CONSUMPTION IS DESIRED. WITH THE EXCEPTION OF CAPACITANCES ITS RATINGS AND CHARACTERISTICS ARE IDENTICAL WITH THOSE OF THE 1D7G.

OPERATING CONDITIONS AND CHARACTERISTICS

PLATE (P) VOLTAGE ^{MAX.}	180	VOLTS
SCREEN (Gs) VOLTAGE ^{MAX.}	67.5	VOLTS
ANODE GRID (GA) VOLTAGE ^{MAX.}	135	VOLTS
ANODE GRID (GA) VOLTAGE SUPPLY ^{MAX.}	180 ^A	VOLTS
CONTROL GRID (G) VOLTAGE ^{MIN.}	-3	VOLTS
TOTAL CATHODE CURRENT ^{MAX.}	9	MA.

CONVERTER SERVICE

PLATE (P) VOLTAGE	135	180	VOLTS
SCREEN (Gs) VOLTAGE	67.5	67.5	VOLTS
ANODE GRID (GA) VOLTAGE	135	135	VOLTS
ANODE GRID (GA) SUPPLY VOLTAGE	135	180 ^A	VOLTS
CONTROL GRID (G) VOLTAGE	-3	-3	VOLTS
OSCILLATOR GRID RESISTOR	50 000	50 000	OHMS
PLATE CURRENT	1.2	1.3	MA.
SCREEN CURRENT	2.5	2.4	MA.
ANODE GRID CURRENT	2.3	2.3	MA.
OSCILLATOR GRID CURRENT	0.2	0.2	MA.
TOTAL CATHODE CURRENT	6.2	6.2	MA.
PLATE RESISTANCE	0.4	0.5	MEGOHM
CONVERSION CONDUCTANCE	275	300	μMHOS
CONTROL GRID (G) VOLTAGE ^{APPROX.}	-22.5	-22.5	VOLTS

FOR CONVERSION CONDUCTANCE = 4 μMHOS

^A APPLIED THROUGH 20 000 OHM DROPPING RESISTOR.

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TUNG-SOL

STATIC CHARACTERISTICS OF OSCILLATOR SECTION - NOT OSCILLATING

PLATE (P) VOLTAGE	135 to 180	VOLTS
SCREEN (G _s) VOLTAGE	67.5	VOLTS
ANODE GRID (G _A) VOLTAGE	135	VOLTS
CONTROL GRID (G) VOLTAGE	-3	VOLTS
OSCILLATOR GRID (G _o) VOLTAGE	0	VOLTS
TRANSCONDUCTANCE - OSCILLATOR GRID (G _o) TO ANODE GRID (G _A)	425	μMHOS
ANODE GRID CURRENT	2.3	MA.

DIRECT INTERELECTRODE CAPACITANCES

CONTROL GRID (G) TO PLATE (P) ⁵	0.26	μf
CONTROL GRID (G) TO OSCILLATOR GRID (G _o) ⁵	0.1	μf
CONTROL GRID (G) TO ANODE GRID (G _A) ⁵	0.2	μf
OSCILLATOR GRID (G _o) TO ANODE GRID (G _A)	0.8	μf
RF INPUT ELECTRODE, GRID (G) TO ALL OTHER ELECTRODES	10.5	μf
OSC. INPUT ELECTRODE, GRID (G _o) TO ALL OTHER ELECTRODES	5.0	μf
OSC. OUTPUT ELECTRODE, GRID (G _A) TO ALL OTHER ELECTRODES	6.0	μf
MIXER OUTPUT ELECTRODE, PLATE (P) TO ALL OTHER ELECTRODES	9.0	μf

⁵ WITH SHIELD